

GENERAL NOTES

1.

ALL LAMPS SHALL BE HIGH PRESSURE SODIUM UNLESS OTHERWISE NOTED.
2.

OPERATING VOLTAGE SHALL BE 480 VOLTS.
3.

ALL BALLASTS SHALL BE REGULATOR TYPE.
4.

REFRACTORS SHALL BE PRESSED PRISMATIC BOROSILICATE GLASS.
5.

ALL FUSES AND FUSEHOLDERS SHALL BE IN-LINE TYPE AND WATERPROOF.
6.

CONDUIT ACCESSORIES, SUCH AS EXPANSION JOINTS, CONDULETS, ELBOWS, FLEXIBLE CONDUIT, ETC., SHALL BE INCLUDED IN THE PRICE BID FOR CONDUIT.
7.

THE CONTRACTOR SHALL INSTALL A NYLON PULL CORD OR GALVANIZED PULL WIRE IN EACH EMPTY CONTUIT. THE COST OF THIS ITEM WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE CONDUIT.
8.

IF THE CONTRACTOR SPECIFIES ANY LUMINAIRE OR FIXTURE OTHAN THAN THOSE SPECIFIED IN THE LUMINAIRE SCHEDULE, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER PHOTOMETRIC DATA AND DESIGN CALCULATIONS FOR THE PROPOSED LUMINAIRES TO VERIFY THE LIGHTING DESIGN CRITERIA.  
THE CONTRACTOR SHALL FURNISH TO THE GDOT LIGHTING DESIGN GROUP THE APPROPRIATE .IES FILE(S) FOR EACH ALTERNATE FIXTURE SUBMITTED.
9.

THE CONTRACTOR SHALL BEWARE OF OVERHEAD POWER LINES AND LOCATE TOWERS AND/OR STANDARDS SUCH THAT THEY WILL HAVE TEN FEET MINIMUM CLEARANCE FROM DISTRIBUTION LINES OR 20 FEET MINIMUM CLEARANCE FROM TRANSMISSION LINES.
10.

LUMINAIRE SPECIFICATIONS:

A.

THE REFLECTOR SHALL CONSIST OF HIGH PURITY (#3000 ALLOY) ALUMINUM OF MINIMUM 0.08 INCH THICK SHEET. FLAT LENS SHALL BE 1/8 INCH FULLY TEMPERED GLASS. THE REFLECTOR AND LENS OPTICAL ASSEMBLYSHALL BE DESIGNED TO PROVIDE THE IES PATTERN SPECIFIED.  
THE SOCKET SHALL BE PULSE RATED, NICKEL-PLATED AND LAMP GRIP POPCELAIN ENCLOSED. IT SHALL PREVENT UNDUE LAMP VIBRATION AND BACKOUT.

B.

THE BALLAST SHALL BE HIGH POWER FACTOR TYPE AS SPECIFIED. IT SHALL RELIABLY START THE LAMP IN AMBIENT TEMPERATURES TO MINUS 40 DEG. F. THE PLUG-IN HPS STARTER SHALL BE TOTALLY ENCAPSULATED WITH A MATERIAL THAT ELECTRICALLY AND THERMALLY INSULATES ALL COMPONENTS FROM LAMP AND BALLAST HEAT. A PROTECTED STARTER SHALL BE PROVIDED TO SENSE AN INOPERATIVE LAMP AND SHUT DOWN AUTOMATICALLY TO PREVENT CONTINUOUS PULSING AND THERMAL DAMAGE TO ITSELF AND THE BALLAST SECONDARY WINDINGS.  
THE LUMINAIRE SHALL BE UL/CUL LISTED FOR 40 DEG. C AMBIENT.

C.

QUICK DISCONNECT ELECTRICAL ASSEMBLY: THE FIXTURE DOOR SHALL CONTAIN ALL BALLAST COMPONENTS AND BE HINGED FOR FAST, TOOL-FREE REMOVAL AND REPLACEMENT. COMPLETE REPLACEMENT SHALL TAKE LESS THAN 60 SECONDS.  
TAKE LESS THAN 60 SECONDS.

D.

ANSI LAMP LABEL: A SELF-ADHESIVE LABEL SHALL BE PROVIDED WHICH IDENTIFIES THE LAMP TYPE AND SIZE. IT SHALL MEET ANSI C-136 STANDARDS.

E.

MECHANICAL CONSTRUCTION: THE HOUSING, DOOR AND FITTER SHALL BE DIE CAST ALUMINUM. THEY SHALL UNDERGO A SIX STAGE CLEANING AND PRE-TREATMENT PROCESS AND OVERCOATED WITH AN ELECTROSTATICALLY-APPLIED 2 TO 4 MIL COAT OF TGIC POLYESTER POWDER PAINT CURED AT 425 DEG. F. THE FINISH SHALL WITHSTAND A 160 INCH-POUND IMPACT MEASURED WITH A STANDARD GARDENER IMPACT TESTER. IT SHALL HAVE PASSED A 1,000 HOUR SALT SPRAY TEST AS SPECIFIED BY ASTM B-177. IT SHALL EXHIBIT NO CRACKING OR LOSS OF ADHESION FROM A 180 DEG. BEND OVER A 1/8 INCH MANDRELL DIAMETER PER ASTM D522. ALL EXTERNAL HARDWARE SHALL BE CORROSIVE-RESISTANT. HOUSING ACCESS SHALL NOT REQUIRE TOOLS. THE FITTER SHALL BE BUILT-IN AND ACCOMMODATE A STANDARD 2 INCH TENON OR ARM. UNITS SHALL BE INSIDE THE FITTER ASSEMBLY AND NOT REQUIRE FIXTURE ENTRY. A TERMINAL BLOCK LOCATED INSIDE THE FITTER SHALL BE PROVIDED.

F.

WARRANTY: THE ELECTRICAL ASSEMBLY SHALL BE FULLY-WARRANTED FOR A PERIOD OF 5 YEARS AND THE HOUSING FOR A PERIOD OF 2 YEARS FROM THE DATE OF INSTALLATION ACCEPTANCE.
11.

THE CONTRACTOR SHALL COORDINATE THE MODIFICATION WORK AT EACH SERVICE POINT WITH GEORGIA POWER COMPANY. CONTACT (INSDERT CONTACT HERE), (CITY), GEORGIA (TELEPHONE NUMBER).
12.

RIGID CONDUIT, INSTALLED ON STRUCTURES, SHALL BE SUPPORTED AT LEAST EVERY TEN FEET AND WITHIN THREE FEET OF JUNCTION BOXES, LUMINAIRES, ETC.
13.

THE LIGHTING CONTRACTOR SHALL COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
14.

THE LIGHTING CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN WARRANTY FOR PARTS AND DEFECTIVE WORKMANSHIP ON THE LUMINAIRES, POLES, LIGHTING CONTROL PANEL AND ALL THE OTHER ELECTRICAL EQUIPMENT.
15.

PRIOR TO START OF THE PROJECT, ALL UTILITIES MUST BE LOCATED.
16.

ALL POLES SUPPLIED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH "GDOTS QUALIFIED PRODUCTS LIST" (QPL) FOR APPROVED SUPPLIERS FOR PROJECTS RECEIVING FEDERAL FUNDING.
17.

ALL LUMINAIRES SUPPLIED FOR THIS PROJECT MUST MEET THE GDOT STANDARD SPECIFICATION SECTION 109 - LUMINAIRES FOR PROJECTS RECEIVING FEDERAL FUNDING.

HIGH MAST POLE SUPPLIER NOTES

1.

DESIGN STRUCTURES FOR FATIGUE CATEGORY 2.
2.

WELD SLIP JOINT SPLICES WITH FULL PENETRATION V-WELDS ON BOTH THE MALE AND FEMALE SECTIONS FOR A DISTANCE OF 1.5 TIMES THE POLE DIAMETER PLUS 6 INCHES.
3.

USE A SOCKET TYPE JOINT WITH TWO FILLET WELDS FOR THE POLE/BASE PLATE CONNECTION.

STATISTICS

DESCRIPTION	AVG (IES)	MAX	MIN	AVG/MIN (IES)
I-75 NB	1.0 fc (0.9 fc)	3.1 fc	0.5 fc	2.0:1 (3.0:1)
I-75 SB	1.0 fc (0.9 fc)	2.9 fc	0.5 fc	2.0:1 (3.0:1)
CR 65	1.2 fc (0.9 fc)	1.7 fc	0.7 fc	1.7:1 (3.0:1)
NB OFF RAMP	1.1 fc (0.9 fc)	1.9 fc	0.4 fc	2.7:1 (3.0:1)
NB ON RAMP	0.9 fc (0.9 fc)	1.8 fc	0.4 fc	2.1:1 (3.0:1)
SB OFF RAMP	1.0 fc (0.9 fc)	1.6 fc	0.5 fc	1.9:1 (3.0:1)
SB ON RAMP	1.1 fc (0.9 fc)	1.7 fc	0.5 fc	2.2:1 (3.0:1)

NUMBERS IN PARENTHESES REPRESENT IESNA RP-8 VALUES.

REVISION DATES


STATE OF GEORGIA  
DEPARTMENT OF TRANSPORTATION  
OFFICE: CONSULTANT DESIGN

LIGHTING PLANS  
GENERAL NOTES AND STATISTICS

NHSTP-0075-03(203)  
UNION GROVE ROAD INTERCHANGE

DRAWING NO.  
25-002



G R E S H A M  
S M I T H   A N D  
P A R T N E R S



Heath & Lineback Engineers  
INCORPORATED  
2390 CANTON ROAD, BUILDING 200  
MARIETTA, GEORGIA 30066-5593  
(770)424-1668